CLASSIFICATION:

UNCLASSIFIED

		E	BUDGET ITE	M JUSTIFICA	TION SHEE	Т			DATE:				
				P-40					February 20	04			
APPROPRIATION/BUDGET ACTIVITY P							P-1 ITEM NOMENCLATURE						
OTHER PROCURE	OTHER PROCUREMENT, NAVY/BA-1						MINESWEEPING EQUIPMENT/BLI #0975						
Program Element for C	ode B Items:						Other Related Program Elements						
0603654N							0204228N; 0204302N; 0204424N						
	Prior	ID									То		
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		Complete	Total	
QUANTITY													
COST													
(In Millions)		Α	6.6	32.1	8.0	12.6	19.4	11.9	10.3		Cont.	Cont.	
SPARES COST													
(In Millions)			0.5	0.9	0.1	0.7	0.2	0.2	0.2		Cont.	Cont.	

Mine Sweeping: This program provides systems, subsystems, and engineering change kits for minesweeping and mine neutralization systems used by the surface MCM force. Systems and equipments are used for magnetic, acoustic, and mechanical type minesweeping systems, plus the AN/SLQ-48 (MNS) for mine neutralization. Engineering change kits improve reliability and maintainability and correct deficiencies to allow equipment to perform in accordance with specified requirements.

Other Propulsion Equipment: Includes Solar Marine Gas Turbine (MGT) Modification Program for improvement to T1302S gas turbine engines used for driving electric pulse generators on MCM Class ships; MCM/MHC Diesel Engine Improvement Program to improve reliability and maintainability of installed MCM and MHC diesel engines; and Integrated Ship Control System (ISCS) to replace the existing MCM Machinery Control System (MCS) and implement condition-based maintenance. Procurement of improved hardware, including modification kits as a result of Product Improvement Programs, is essential for maintaining/increasing engine reliability. Procurement of special tooling and support equipment is required to facilitate incorporation of modifications as well as enable routine and expanded repair of equipment to improve life cycle support. The procurement of technical documentation, e.g., technical manuals, PMS, Level III production drawings, etc., is essential to maintain complete life cycle support for these engines and related equipment.

Underwater EOD Equipment: This program supports Explosive Ordnance Disposal (EOD) Groups, Units and Detachments worldwide. This EOD diving program supplies EOD forces with the necessary diving and diving related equipment to fulfill assigned missions.

UQ015-SOLAR MARINE GAS TURBINE (MGT) MODIFICATION MCM: Provides a standardized engine configuration, introduces reliability/maintainability improvements, and implements an effective Integrated Logistics Support (ILS) program realizing fleet mission readiness improvements while supporting the operation of the Regional Repair Center.

UQ016-MCM/MHC DIESEL ENGINE PROGRAM: In FY 02/03, this program funded the Voith Schneider Propulsors (VSP). The VSP provides a high degree of precision maneuverability crucial to work in minefields. These propulsors resemble a large eggbeater with each ship having port and starboard units. Although some parts are interchangeable between port and starboard, the assembled units themselves are not. The VSP will also support an overhaul program and serve as a rotatable pool for the MHC 51 Class to maintain reliability of the propeller and prevent casualties during deployment. Isotta Fraschini (I-F) diesel engines installed in MCM-1/MHC-51 class ships have design deficiencies that significantly effect reliability and maintainability, and severely undermine the ability to operate and maintain the ship as designed with reduced manning. This program is critical to correct design deficiencies and improve the Mean-Time-Between-Failure for increased ship operational availability. MCM-1 and MHC-51 class ships are minimally-manned, and six ships have been forward deployed, providing valuable operational experience for the identification of required system improvements. Increased reliability and maintainability is achieved through the implementation of engineering changes such as MACHALTs and associated engineering; ILS; improved spare parts support; correction of cooling system design deficiencies; improvements to the fuel system, lube oil system, drive train, and main bearings; reduction of sea water corrosion; configuration control, and increased spare parts sourcing/availability.

P-1 SHOPPING LIST

DD Form 2454, JUN 86 ITEM NO. 17 PAGE NO. 1

UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

		T					
BUDGET ITEM JUSTIFICATION SHEET		DATE:					
P-40 CONTINUATION	T	February 2004					
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY/BA-1	MINESWEEPING EQUIPMENT/BLI #0975						
UQ017-INTEGRATED SHIP CONTROL SYSTEM (ISCS): Funds the MCM/MHC ISCS to implement con reliability (by detecting changes in equipment performance prior to catastrophic failure), and permit shipbox The MCS replacement will bring all MCM/MHC ships to a common configuration.							
UQ019-MINE WARFARE VULNERABILITY IDENTIFICATION PROGRAM (MIW-VIP): Measures magr Combined Degaussing and Acoustic Range (FACDAR)). Measurements will be taken in both home port are							
UQ034-UNDERWATER EOD AND VSW SYSTEMS/EQUIPMENT:							
DIVER U/W IMAGING SYSTEM: Provides a next generation replacement for the AN/PQS-2A Sonar wh reduced visibility. Will also provide diver with an underwater navigation capability. An Abbreviated Development Model (ADM) 9/00 to 11/00; Engineering Development Model (EDM) 10/01 to 4/02.	•	,					
EMERGENCY EVACUATION DIVER SYSTEM: Provides a lightweight 2 person portable stretcher that is a EOD forces deployed in Naval Task Groups. An Abbreviated Acquisition Program (AAP) with no formal DT/							
MICRO DIVER DISPLAY: Provides a low magnetic miniature display for the Underwater Imaging System to	enhance capabilities for identifi	cation of mine-like obljects in the EOD and VSW MCM zone.					
ADVANCED MINATURE MINE ID SENSOR: Provide a low magnetic high frequency sonar array to the Under	erwater Imaging System in orde	r to conduct stand -off identification of mines.					
ADVANCED UNDERWATER LIMPET MINE EQUIPMENT: Provides equipment to the EOD units to enhand attached mines.	nce their ability to detect, neutra	alize and gather intelligence on underwater limpet & special					
VSW/EOD EQUIPMENT: Provides for the procurement of VSW/EOD Unmanned Underwater Vehicle's Acquisition Program (AAP) with no formal DT/OT required. Systems testing and evaluation 1/01 to 2/05.	in support of VSW MCM Det	achment & EOD Detachment Operations. An Abbreviated					

CLASSIFICATION: UNCLASSIFIED

DD Form 2454, JUN 86

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION		February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-1	MINESV	VEEPING EQUIPMENT/BLI #0975
UQ035-OUTFIT EOD/VSW MCM TOOLS AND EQUIPMENT:		
VERY SHALLOW WATER MINE COUNTERMEASURES (VSW MCM) OUTFITTING: Provides for procu	ement of equipment and hardware	e supporting VSW MCM Detachment operations.
OUTFITTING EOD MOBILE UNIT: Provides for outfitting of diving system equipment which enhance miss	ion capability for established EOD	Mobile Units.
C4I UPGRADES: Provides for the upgrade of existing EOD Mobile Communication Systems (MCS) to C4	I requirements.	
IMPROVED MCM INFLATABLE CRAFT: Provide EOD units with an improved multi-functional, lightweigh operations.	craft with no magnetic and extrem	nely low acoustic signature to MCM and over-the-horizon
UQ036-RE-CONSTITUTION OIF EQUIPMENT: Provides for the re-constitution of EOD equipment.		
UQ830-PRODUCTION ENGINEERING: Provides production engineering in support of the above proproduction support efforts directly related to delivery of the hardware. In addition for EOD equipment, review procuring activity in support of the EOD unified procurement system.		
UQ850-PRODUCT IMPROVEMENT: Engineering services to improve EOD Systems/Equipment in produ	ction to improve maintainability, uti	lize current technology, and decrease cost.
UQ860-ACCEPTANCE, TEST, AND EVALUATION: Test, inspect, and accept first articles and, on a 100 man-rated, and proper functioning of each item must be verified.	% basis, the production quantity of	EOD tools and equipment being procured. These tools are
UQTNG-INITIAL TRAINING: Provide training support packages which include curriculum material and tra	ning aids for Underwater EOD/VS	W MCM Detachment equipment

CLASSIFICATION:

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5 APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-1					Weapon System							DATE: February 2004			
					ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD									
					Α	MINESWEEPING EQUIPMENT/BLI #0975									
		TOTAL COST IN THOUSANDS OF DO					MINESPELL ING EQUIFMENT/DEI #05/3								
COST	ELEMENT OF COST		Prior		FY 2003			FY 2004		FY 2005					
CODE		Code	Years Total Cost			Total Cost Quantity		Unit Cost Total Cost		Quantity Unit Cost		Total Cost	Quantity	Unit Cost	Total Cost
	SPONSOR N75/N76		Total Cost	Quantity	Offic Cost	Total Cost	Quantity	Offit Cost	Total Cost	Quantity	Offic Cost	Total Cost	Quantity	Offic Cost	Total Cos
UQ015	SOLAR MGMT MOD PROGRAM					326									
UQ016	MCM/MHC DIESEL ENGINE PROGRAM	Α				2,996									
UQ017	INTEGRATED SHIP CONTROL SYS	Α				274									
UQ019	MIW-VIP	Α				1,888			271			398			
UQ034	U/W EOD & VSW SYSTEMS/EQUIP					<u>0</u>			4,689			5,377			
	DIVER U/W IMAGING SYSTEMS	Α					110	35	3,875	22	35	786			
	EMERGENCY EVACUATION DIVER SYS	Α					7	80	564	7	80	564			
	MICRO DIVER DISPLAY	Α					27	9	250	79	9	750			
	ADVANCED MINI MINE ID SENSOR	Α								70	10	700			
	ADVANCED U/W LIMPET MINE EQUIPMENT	Α								101	5	509			
	VSW/EOD EQUIPMENT	В								2	1,034	2,068			
UQ035	OUTFIT EOD/VSW MCM TOOLS & EQUIP					70			7,420			987			
	VSWMCM OUTFITTING	Α							367			237			
	OUTFITTING EOD MOBILE UNIT	Α							6,285						
	C4I UPGRADES	Α				70			306			276			
	IMPROVED MCM INFLATABLE CRAFT	Α							462			474			
UQ036	*RE-CONSTITUTIONS OIF EQUIPMENT	Α							18,580						
UQ830	PRODUCTION ENGINEERING	Α				210			325			330			
UQ850	PRODUCT IMPROVEMENT	Α				551			300			450			
UQ860	ACCEPTANCE, TEST & EVAL	Α				278			286			284			
UQTNG	INITIAL TRAINING	Α				23			201			220			
	*IFF Supplemental funding for body armor, EOI	equip	ment, HIMIMIVV	v modificatio	ons to support	mobile tactica	communicat	ions , base car	mp support ar 	nd the portab	ie radio progra	ım. 			
	*Funding is required for software maintenance														
						0.04	,		20.070			0.040			
	2446 .ILIN 86		L	L	P-1 SHOPPIN	6,616	"		32,072			8,046		L	

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						A. DATE				
							February 2004			
B. APPROPRIATION/BUDGE	T ACTIVITY			C. P-1 ITEM NO	MENCLATURE		SUBHEAD			
Other Procurement,	Navy/BA-1							71UQ		
	-		MINESWEEPING EQUIPMENT/BLI #0975							
Cost Element/ FISCAL YEAR	QUANTITY UNIT COST (000)		LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FISCAL YEAR(03)		(000)								
FISCAL YEAR(04) UQ034										
U/W Imaging System	110	35	NSWCIHD, IH, MD		FFP/CFF	RD INSTR, SAN DIEGO, CA	1/04	9/04	YES	
EEDS	7	80	NSWCIHD, IH, MD		TBD	TBD	3/04	4/04	YES	10/00
Micro Diver Display	27	9	NSWCIHD, IH, MD		TBD	TBD	7/04	4/05	NO	12/03
FISCAL YEAR(05) UQ034										
U/W Imaging System	22	35	NSWCIHD, IH, MD		TBD	TBD	1/05	9/05	YES	
EEDS	7	80	NSWCIHD, IH, MD		TBD	TBD	1/05	4/05	YES	
Micro Diver Display	79	9	NSWCIHD, IH, MD		TBD	TBD	1/05	9/05	NO	12/03
Mini Mine ID Sensor	70	10	NSWCIHD, IH, MD		TBD	TBD	1/05	9/05	NO	12/03
Limpet Mine Equipment	101	5	NSWCIHD, IH, MD		TBD	TBD	1/05	9/05	NO	12/03
VSW/EOD Equipment	2	1034	NSWCIHD, IH, MD		TBD	TBD	1/05	8/05	YES	
D. REMARKS										

DD Form 2446-1, JUL 87 P-T SHOPPING LIST Classification:

ITEM NO.17 PAGE NO. 5 **UNCLASSIFIED**